

FDRW35S60L(600V, 35A)

Ultra-FRD Series

Maximum Rating and Characteristics

• Maximum Ratings (at T_a=25°C unless otherwise specified.)

Item	Symbol	Conditions	Ratings	Units
Repetitive peak reverse voltage	VRRM	_	600	V
Average forward current	IFAV	50Hz Square wave duty =1/2 $T_c = 91^{\circ}C$	35	A
Non-repetitive forward surge current	IFSM	Sine wave, 10ms 1shot	140	A
Operating junction temperature	Tj	—	+150	°C
Storage temperature	Tstg	—	-40~+150	°C

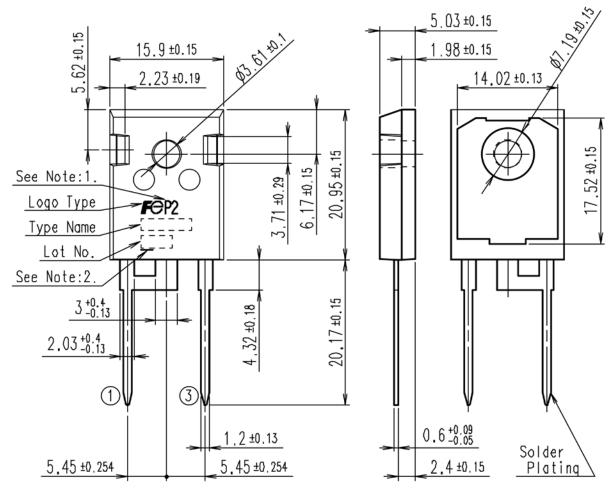
● Electrical Characteristics (at T₂=25°C unless otherwise specified.)

Item	Symbol	Conditions	Maximum	Units
Forward voltage	VF	I⊧ = 35A	2.6	V
Reverse current	IR	$V_{R} = V_{RRM}$	250	μA
Reverse recovery time	trr	V _R =30V,I _F = 3.5A -di/dt=200A/us	0.036	μs
Thermal resistance	Rth(j-c)	Junction to case	0.8	°C/W

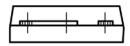
Mechanical Characteristics

Item	Conditions	Maximum	Units
Mounting torque	Recommended torque	0.4~0.6	N∙m
Approximate mass	_	4.9	g

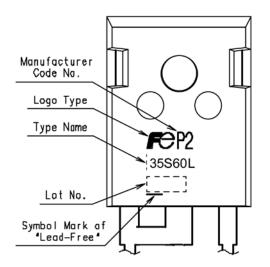
Outline Drawings, mm TO-247



DIMENSIONS ARE IN MILLIMETERS.



MARKING

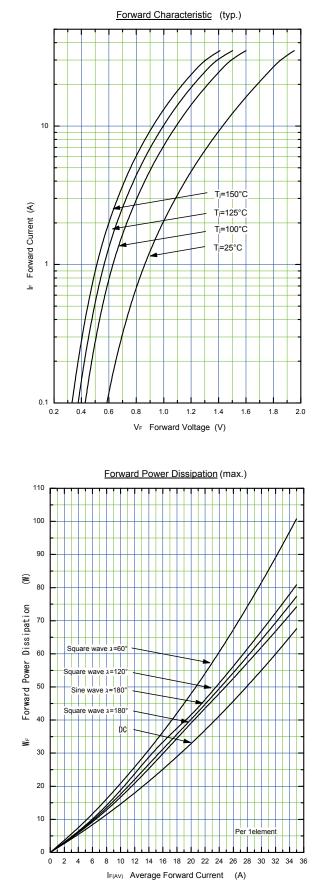


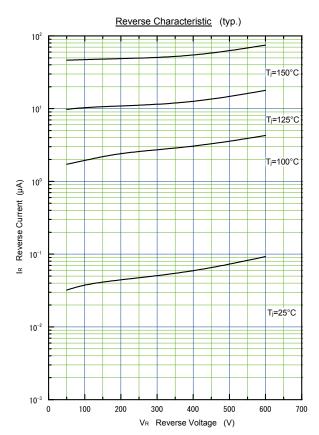
CONNECTION

CATHODE

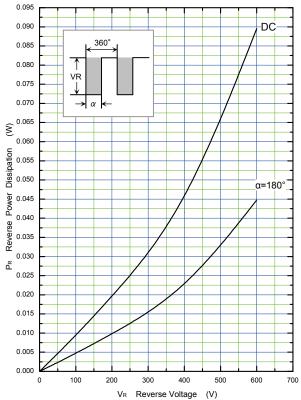
3 ANODE

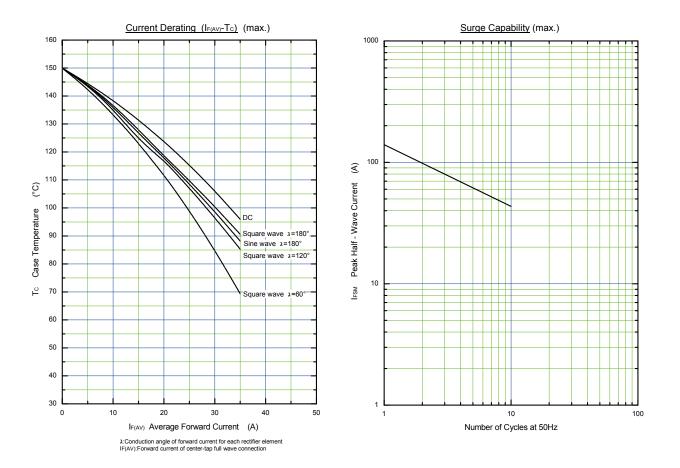
Characteristics (Representative)

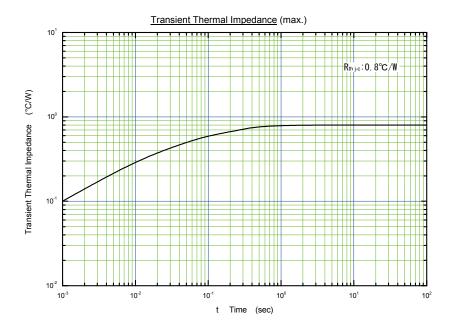












WARNING

-

	ubject to change without not	ns, characteristics, data, materia ice for specification changes or		2012. a product listed in this Catalog,
implied, under any granted. Fuji Elect	patent, copyright, trade seci ric Co., Ltd. makes no repres		right owned by Fuji Electric express or implied, relating to	
faulty. When using the equipment from	Fuji Electric semiconductor	re, or other problem if any of the	u are requested to take ade	quate safety measures to prever
4. The products intro requirements.	duced in this Catalog are int	ended for use in the following e	lectronic and electrical equip	oment which has normal reliabili
Computers Machine tools	 OA equipment Audiovisual equipmen 	Communications equipme Electrical home appliances		 Measurement equipment Industrial robots etc.
it is imperative to c	ontact Fuji Electric Co., Ltd.	equipment requiring higher reli to obtain prior approval. When the equipment from malfunctior	using these products for suc	ch equipment, take adequate
	uipment (mounted on cars a	ind ships)	 Trunk communications 	
 Traffic-signal con Emergency equip Medical equipment 	ment for responding to disas	sters and anti-burglary devices	Gas leakage detectors Safety devices	s with an auto-shut-off feature
6. Do not use produc (without limitation).	ts in this Catalog for the equ	ipment requiring strict reliability	such as the following and e	quivalents to strategic equipmer
Space equipmentSubmarine repeat		Aeronautic equipment	Nuclear control equipr	nent
1,2,0	2012 by Fuji Electric Co., Ltd log may be reproduced in a	. All rights reserved. ny form or by any means withou	t the express permission of	Fuji Electric Co., Ltd.
		his Catalog, ask Fuji Electric Co Il be liable for any injury caused		fore using the product. not in accordance with instruction